



HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 200315915-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Hai Q. Chiang, et al.

Confirmation No.: 7711

Application No.: 10/799,471

Examiner: Joseph H. Nguyen

Filing Date: 03/12/2004

Group Art Unit: 2815

Title: SEMICONDUCTOR DEVICE

Mail Stop Amendment
Commissioner For Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.97 (b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c), together with either a:
☐ Statement under 37 CFR 1.97 (e), or
☐ a \$180 fee under 37 CFR 1.17 (p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☒ under 37 CFR 1.97 (d), together with either a:
☒ Statement under 37 CFR 1.97 (e)(1) or (2), and
☒ a \$180 fee set forth in 37 CFR 1.17 (p)
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$ 180.00 . At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

Applicant(s) submit herewith form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

- ☒ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an english language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed.

It is requested that the information disclosed herein be made of record in this application.

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Typed Name: Sarah L. Reinhard

Signature: 

Respectfully submitted,

Hai Q. Chiang, et al.

By 

Edward J. Brooks III

Attorney/Agent for Applicant(s)

Reg No. : 40,925

Date : 12/12/2005

Telephone : (612) 236-0120



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STATEMENT UNDER 37 CFR 1.97 (e)

The undersigned hereby certifies that either:

- ☒ Each item of information contained in the Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or
- ☐ No item of information contained in the Information Disclosure Statement
- was cited in a communication from a foreign patent office in a counterpart foreign application, and
- to the knowledge of the undersigned, after making reasonable inquiry, was known to any designated in 37 CFR 1.56 (c) more than three months prior to the filing of the Information Disclosure Statement.

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Substitute for Form 1449/PTO

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2
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Complete if Known

Application Number	10/799,471
Filing Date	03/12/2004
First Named Inventor	Hai Q. Chiang
Art Unit	2815
Examiner Name	Joseph H. Nguyen
Attorney Docket Number	200315915-1

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
		EP1443130	08/04/2004	Japan Science		
		WO 03/010441	05/15/2003	Japan Science		
		WO 2004/034449	04/22/2004	DuPont		

Examiner Signature		Date Considered	
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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/799,471
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		First Named Inventor	Hai Q. Chiang, et al
		Art Unit	2815
		Examiner Name	Joseph H. Nguyen
Sheet 2	of 2	Attorney Docket Number	200315915-1

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		OHTA, H. "Frontier of transparent oxide semiconductors", Solid State Electronics, vol 47, no. 12, December 2003, pgs. 2261-2267	
		MINAMI, T. "Transparent conductive multicomponent oxides films prepared by magnetron sputtering", Journal of Vacuum Science & Technology, vol 17, July 1999, pgs. 1765-1772	
		HIRAMATSU, H., "Electrical and Optical Properties of Radio-Frequency-Sputtered Thin Films of ((ZnO)5In2O3", Chemistry of Materials, vol 10, no 10, October 1998, pgs. 3033-3039	

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